MA 16010 Applied Calculus I

Calendar, Summer 2020

Exam 1: Lesson 1-7 Exam 2: Lesson 8-14 Exam 3: Lesson 15-23

Date	Lesson	Topics
6/15 Mon	1	Finding Limits Numerically; One-sided Limits; Finding limits Graphically
6/16 Tu	2	Finding Limits Analytically; Continuity
6/17 Wed	3	The Derivative
6/18 Th	4	Basic Rules of Differentiation; Derivatives of the Sine and Cosine Functions; Derivative of the Natural Exponential Function
6/19 Fri	5	Instantaneous Rates of Change
6/22 Mon	6	The Product Rule
6/23 Tu	7	The Quotient Rule; Derivatives of the Other Trigonometric Functions
6/24 Wed	8	The Chain Rule
6/25 Th		REVIEW FOR EXAM 1
6/26 Fri		**Exam 1** (Online Exam 1 Window: 9am on Thur 6/25 to 9am on Sun 6/28)
6/29 Mon	9	The Chain Rule; Derivative of the Natural Logarithmic Function
6/30 Tu	10	Higher Order Derivatives; Implicit Differentiation
7/1 Wed	11	Implicit Differentiation; Related Rates
7/2 Th	12	Related Rates
7/3 Fri		No Class
7/6 Mon	13	Relative Extrema and Critical Numbers
7/7 Tu	14	Increasing and Decreasing Functions and the First Derivative Test
7/8 Wed	15	Concavity, Inflection Points and the Second Derivative Test
7/9 Th		REVIEW FOR EXAM 2
7/10 Fri		**Exam 2** (Online Exam 2 Window: 9am on Thur 7/9 to 9am on Sun 7/12)
7/13 Mon	16	Absolute Extrema on an Interval
7/14 Tu	17	Graphical Interpretation of Derivatives
7/15 Wed	18	Limits at Infinity
7/16 Th	19	A Summary of Curve Sketching
7/17 Fri	20	Optimization
7/20 Mon	21	Optimization
7/21 Tu	22	Antiderivatives and Indefinite Integration
7/22 Wed	23	Antiderivatives and Indefinite Integration
7/23 Th		REVIEW FOR EXAM 3
7/24 Fri		**Exam 3** (Online Exam 3 Window: 9am on Thur 7/23 to 9am on Sun 7/26)
7/27 Mon	24	Area and Riemann Sums
7/28 Tu	25	Definite Integrals
7/29 Wed	26	The Fundamental Theorem of Calculus
7/30 Th	27	Numerical Integration
7/31 Fri	28	Exponential Growth
8/3 Mon	29	Exponential Decay
8/4 Tu		REVIEW FOR FINAL EXAM
8/5-8/7		**Final Exam** (Final Exam Window: 9am on Wed 8/5 to 9am on Sat 8/8)